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An enhanced model for searching in semantic portals

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↑ ABSTRACT

Semantic Portal is the next generation of web portals that are powered by Semantic Web technologies for improved information sharing and exchange for a community of users. Current methods of searching in Semantic Portals are limited to keyword-based search using information retrieval (IR) techniques, ontology-based formal query and reasoning, or a simple combination of the two. In this paper, we propose an enhanced model that tightly integrates IR with formal query and reasoning to fully utilize both textual and semantic information for searching in Semantic Portals. The model extends the search capabilities of existing methods and can answer more complex search requests. The ideas in a fuzzy description logic (DL) IR model and a formal DL query method are employed and combined in our model. Based on the model, a semantic search service is implemented and evaluated. The evaluation shows very large improvements over existing methods.

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↑ INDEX TERMS

Primary Classification:

H. Information Systems

↳ H.3 INFORMATION STORAGE AND RETRIEVAL

↳ H.3.3 Information Search and Retrieval

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fuzzy description logic, fuzzy reasoning, information retrieval, semantic portal, semantic search

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 December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems IS '97**, Volume 28 Issue 1

Publisher: ACM Press

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2 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith

 February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB)

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In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

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Enda Brophy

 December 2002 **ACM SIGCAS Computers and Society**, Volume 32 Issue 4

Publisher: ACM Press

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4 [Link and channel measurement: A simple mechanism for capturing and replaying wireless channels](#)

Glenn Judd, Peter Steenkiste

 August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental**

approaches to wireless network design and analysis E-WIND '05**Publisher:** ACM PressFull text available:  [pdf\(6.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless**5 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM PressFull text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Columns: Risks to the public in computers and related systems

Peter G. Neumann

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.54 MB\)](#) Additional Information: [full citation](#)**7 Risks to the public in computers and related systems**

Peter G. Neumann

April 1993 **ACM SIGSOFT Software Engineering Notes**, Volume 18 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.60 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**8 The Governance of Code: Open Land vs. UCITA Land**

Serena Syme, L. Jean Camp

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